OIML Weights



NC-20K-E1-ASS

Calibration Weight - E1 class

Application

Weights intended to ensure traceability between national mass standards (with values derived from the International Prototype of the kilogram) and weights of class E2 and lower.

Class E1 weights or weight sets shall be accompanied by a calibration certificate.

Used as a primary reference for calibrating other reference standards and weights where the stability of the environment and careful handling are assured. Class E1 weights have no method of adjustment and are not suitable for general laboratory use. The uncertainty is guaranteed to be 1/3 the tolerance.

NST/R

Calibration Weight



Technical Specifications		
NSTAR		
NC-20K-E1-ASS		
OIML E1		
Austenitic stainless steel (Density 8.00 g/cm³)		
Monoblock construction, No adjustable cavity		
Highly polished mirror finish, [Rz < 0.5, Ra < 0.1 (μm)]		
Maximum magnetic polarization, $\mu_0 M$, $(\mu T) < 2.5$		
20 kg		
No denomination marking on test weights		
OIML R-111, 2004 (E)		
NABL accredited certificate - 2 years validity		





Shape	Denomination
Cylindrical knob	20 kg

Dimensions				
Storage Case	Alluminium storage case			
Weight Box Size	20 x 20 x 30 cm (L x W x H)			
Net Weight	22.5 kg			
Number of Package	1			
Gross Weight	26 kg			
Package Data	26 x 26 x 36 cm (L x W x H)			
External Packing	Corrugated boxes			

^{*} test weights and storage case are packed separately for logistics purpose.



* weight lifting accessories are optional.



Calibration Weight



Tolerance and Uncertainties

Denominations	Tolerance#	Uncertainty*
	(mg)	(mg)
20 kg	10.0	3.16



[#] Maximum Permissible Errors (MPE) as per OIML R-111

^{*} Accredited CMC of NSTAR Corp Metrology Department (CC-3213) NSTAR Corp is offering assured 1/3rd uncertainty to the MPE for OIML E1 class weights.